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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,800	•	09/12/2003	Dan E. Williams	00-4707	9502	
39820	7590	08/20/2004		EXAMINER		
		'INGSTON, PA	HOLZEN, STEPHEN A			
963 TRAIL TERRACE DRIVE NAPLES. FL 34103				ART UNIT	PAPER NUMBER	
,				3644		
				DATE MAILED. 09/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Comments	10/662,800	WILLIAMS, DAN E.					
Office Action Summary	Examiner	Art Unit					
	Stephen A. Holzen	3644					
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with the c	orrespondence addre	ess				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) day of will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed is will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.				
Status							
1) Responsive to communication(s) filed on 14	June 2004.						
	is action is non-final.						
Disposition of Claims							
4) ☐ Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-6 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/	awn from consideration.						
Application Papers							
9) The specification is objected to by the Examir	ier.						
D) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received.  Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National St	age				
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>	4) Interview Summary Paper No(s)/Mail Da  5) Notice of Informal P  6) Other:	ate	52)				

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## Response to Arguments

1. Applicant's arguments filed 6/14/2004 have been fully considered but they are not persuasive. Absent persuasive evidence that the particular shape of the porthole is significant, the examiner asserts that a teardrop shape is merely a matter of design choice. The applicant contends that the teardrop shaped holes impart spin on the paintball for increased accuracy, however no significance has been given to the teardrop shaped over other shaped portholes. The examiner asserts that circular or ovular shaped portholes would work equally as well as a tear drop shaped porthole. Furthermore in light of the specification it appears that most of the spin created by the gun is imparted onto the paintball via the spirally scored inner tube and not the shape of the porthole. Nevertheless, Peterson (US Pat. No. 618,901) illustrates that tear-dropped shaped portholes are a known shape for imparting greater accuracy of a shot fired. (see Figure 3).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6 rejected under 35 U.S.C. 103(a) as being unpatentable over Humm in view of Peterson (618,901)

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Re - Claim 1-5: Humm discloses every aspect of the present invention except the shape of the portholes (tear drop shaped). However as illustrated by Peterson (618,901) tear drop shaped portholes are a well known shape which increase the accuracy of a projectile fired from a gun. (see Col. 3, lines 5-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use teardrop shaped portholes for the purpose of increased accuracy.

Re - Claim 6: Humm does not teach that the outer tube length is equal to the second length of the inner tube. It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the outer tube with a length equal to the second length of the inner tube as defined above in the silencer of Humm, since it has been held that changes in relative dimensions without affect to the operation of the device involves only routine skill in the art. Gardner v. TEC Systems, Inc, 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), ccrf. denied, 469 U.S. 830, 225 USPQ 232 (1984).

## Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen A. Holzen whose telephone number is 703-308-2484. The examiner can normally be reached on M-F 7:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Carone can be reached on 703 306-4198. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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